

**ABSTRACT OF THE DISCLOSURE****PIPELINE SCSI NEXUS ASSOCIATIVITY CIRCUIT**

5 An innovative circuit is disclosed that enhances performance on a SCSI bus by pipelining nexuses in order to associate all nexus attributes on a per nexus basis. For example, a pipeline of nexuses is created so as to associate all of the nexus attributes from different connections involved. A plurality of load stages is provided whereby each load stage can latch all nexus attributes received at that stage. The latched nexus attributes can be loaded and stored at that stage or shifted 10 to the next stage. As a result of the loading and shifting operations, a pipeline of nexuses is created that associates all of the nexus attributes received from the different connections on a per nexus basis. Therefore, all types of data traffic can be processed concurrently on a SCSI bus, which enhances data throughput and bus performance.